

VANCEROVA, L. MUDr., nositelka Radu prace; KLIMOVÁ-YUGNEROVÁ, MUDr., M.

Health education in the retrospect (1945-1960). Česk. zdravot.
8 no.5:257-264 My '60.

1. Reditelka Ustředního učebního zdravotnické osvěty (for Vancurova).
J. Krajská osvětová, lekárská UVV - Praha (for Klimová-Yugnerová)
(HEALTH EDUCATION)

Klimovets, Yu. A.

Klimovets, Yu. A.

"The Morphology of the Upper Maxillary Sinuses." Kazakh State Medical
Inst. imeni V. M. Molotov. Alma-Ata, 1955. (Dissertation for the
Degree of Candidate in Medical Science)

So: Knizhnaya letopis', No. 27, 2 July 1955

BOGDANOVIC, J.; KLIMOVIC, A.

Composition of the humus in some alkali soils of Vojvodina.
Zemljiste biljka 12 no.1/3,191-194 Ja-D '63.

1. Jaroslav Cerni Institute of Development of Water Resources,
Belgrade.

1. KLIMOVICH, A. F.
2. USSR (600)
4. Fisheries - Accounting
7. Organization of accounting for fishing equipment and its wearing out. Ryb. khoz. 28, no. 10, 1952.
9. Monthly List of Russian Accessions, Library of Congress, January, 1953. Unclassified.

5(1,2,4)

AUTHOR:

Klimovich, A. I.

SOV/153-58-6-12/22

TITLE: Thermodynamic Calculation of the Reduction Reaction of Calcium Ortho-phosphate by Methane (Termodynamicheskiy raschet reaktsii vosstanovleniya ortofosfata kal'tsiya metanom)

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Khimiya i khimicheskaya tekhnologiya, 1958, Nr 6, pp 71-78 (USSR)

ABSTRACT: For the purpose of obtaining elementary phosphorus from calcium phosphate coal is used practically exclusively as a reducing agent. Among the gases that can be taken into consideration in this connection methane seems to be the most interesting one (Refs 1-4). In order to estimate the chances of a reduction by gases the author dealt with the topic mentioned in the title. He based his work on the following preconditions: 1) The reaction does not occur below 1000; 2) in the reduction a partial splitting of methane takes place and its products may participate in the reaction; 3) the end products can only be elementary phosphorus and phosphine.
a) Reduction by methane. Calcium ortho-phosphate is reduced

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Thermodynamic Calculation of the Reduction Reaction of Calcium Ortho-phosphate by Methane

above 1000° (Refs 1, 2). Therefore, the thermal splitting of methane: $\text{CH}_4 \rightleftharpoons \text{C} + 2\text{H}$ (1) must be taken into account.

This is why the reduction of $\text{Ca}_3(\text{PO}_4)_2$, not only by methane, but also by the other reagents mentioned, had to be calculated thermodynamically. Apart from the reaction products of reaction (1), CO and CO_2 may also be taken into consideration as reaction products, CO_2 -formation being, however, little probable. Thus the author calculated only the reaction in which CO and elementary phosphorus are formed (reactions I-1-7, Table 1). The data obtained show that at 1500°K reaction I-4 is the only thermodynamically possible one. Furthermore, the temperature increase exerts a favorable effect on reactions I - 1, I - 3, and I - 6 as well. By means of this the isobaric potential is considerably lowered. Therefore only these reactions were calculated also in the presence of Si (I-8-11), and equations $\Delta Z = f(T)$ for them were derived. Table 2 shows the values ΔZ_T calculated from these equations

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Thermodynamic Calculation of the Reduction Reaction of Calcium Ortho-phosphate by Methane

at different temperatures. Reactions I-8 and I-11 are thermodynamically impossible. b) Similar calculations for the reduction with carbon (Table 3) showed the reduction of $\text{Ca}_3(\text{PO}_4)_2$ by carbon (graphite) in the presence of SiO_2 at $T > 1500^\circ\text{K}$ to be possible. This confirms the practically employed temperature of 1400-1500°C in electrothermal phosphorus production. c) From calculations (Table 4) it is obvious that the reduction by molecular hydrogen is impossible even in the presence of SiO_2 at a temperature of $< 1700^\circ\text{K}$. This proves the error of reference 3. d) On the reduction of phosphate by CO, only elementary phosphorus (P_2 or P_4), and, as an oxidation product of CO, only CO_2 can be formed. From table 5 it will be seen that a reduction of CO is completely impossible. CO is the only possible oxidation product of methane and of carbon. This leads to the conclusion that the statements made in references 13 and 14 are erroneous. e) R-

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SOV/153-58-6-12/22
Thermodynamic Calculation of the Reduction Reaction of Calcium Ortho-phosphate by Methane

duction by active products of the thermal splitting of methane. Only reactions with atomic hydrogen and carbon were calculated (Table 6) from which it is obvious that the $\text{Ca}_3(\text{PO}_4)_2$ reduction by these elements at any given temperature must be a very intensive one. There are 6 tables and 15 references, 11 of which are Soviet.

ASSOCIATION: Kafedra obshchey i neorganicheskoy khimii; L'vovskiy politehnicheskiy institut
(Chair of General and Inorganic Chemistry; L'vov Polytechnical Institute)

SUBMITTED: November 21, 1957

Card 4/4

KLIMOVICH, A. I., Candidate Chem Sci (diss) -- "The reduction of phosphates with natural methane". L'vov, 1959. 23 pp (Min Higher Educ Ukr SSR, L'vov Polytech Inst), 150 copies (KL, No 25, 1959, 128)

ABRAM P.Ya.; ALEKSANDROVA, G.I.; VOL'SKIY, V.S.; GORDON, Kh.I.;
KLIMOVICH, A.I.; LIFSHITS, V.A.; FEDOTOV, F.G. (deceased);
AVKSENT'IEV, P.A., [retsenzent]; ZAKHAROV, N.N. [retsenzent];
KOCHANOV, M.I. [retsenzent]; LEKSASHOV, P.P. [retsenzent];
NOVIKOV, V.F. [retsenzent]; SOKOLOV, M.V. [retsenzent];
SHESTOPAL, V.M. [retsenzent]; YAKOBSON, M.O. [retsenzent];
QAL'TSOV, A.D., red.; STRUZHNESTRAKH, Ye.I., red.; KHISIN, R.I.,
red.; SEMENOVA, M.M., red. izd-va; POCHTAREVA, A.V., red. izd-
va; TIKHANOV, A.Ya., tekhn. red.; MODEL', B.I., tekhn. red.

[Handbook for the establishment of norms in the machinery
industry in 4 volumes] Spravochnik normirovshchika-mashinostroi-
telia v 4 tomakh. Moskva, Mashgiz, Vol. 4. [Engineering norms
in auxiliary shops] Tekhnicheskoe normirovanie vo vspomogatel'-
nykh tsekhakh. 1962. 478 p. (MIRA 16:2)

(Machinery industry—Production standards)

"APPROVED FOR RELEASE: 09/18/2001

CIA-RDP86-00513R000723130003-2

BERKMAN, Ya.P.; KLIMOVICH, A.I.

Reduction of phosphates by natural methane. Dokl. IP1 5 no. 1/2:
130-133 '63. (MIRA 17:6)

APPROVED FOR RELEASE: 09/18/2001

CIA-RDP86-00513R000723130003-2"

BERKMAN, Ya.P.; KLIMOVICH, A.I.

Reduction of calcium orthophosphate by natural methane, Izv.vys.
ucheb.zav.; khim.i khim.tekh. 7 no.6:953-957 '64. (MIRA 18:5)

1. L'vovskiy politekhnicheskiy institut, kafedra obshchey i
neorganicheskoy khimii.

KLIMOVICH, A.M.

Adequate optical chronaxy in disseminated sclerosis. Dokl. AN BSSR
8 no.4:273-275 Ap '64.
(MIRA 17:6)

1. Institut fizioligii AN BSSR. Predstavлено akademikom AN BSSR
D.A. Markovym.

KLIMOVICH, A.M.

Adequate optical chronaxia in vascular injuries of the brain.
Vestsi AN BSSR. Ser. bial. nav. no.2:78-82 '64.

(MIRA 17:11)

KLOMOVICH, A.M.

Adequate optical chronaxie in epilepsy patients. (Dokl. Akad. Nauk SSSR 8
no.61414-417 Ju 1964. UDK 616.852.2(01) 17:10)

1. Laboratoriya po fiziologii normy i bolezni Institutu fiziologii
AN BSSR. Predstavleno skazaniem AN RASSR T.S. Markovtse.

KLIMOVICH, B. M.

PA 46/49T36

USSR/Engineering
Dehydrators
Fuel

Aug 48

"Nonfreezing-Type Water Separators," B. M. Klimovich,
1 p

"Za Ekonomiyu Topliva" Vol V, No 8

X

Diagram and operation of a thermal water separator
with a dropping valve.

46/49T36

"APPROVED FOR RELEASE: 09/18/2001

CIA-RDP86-00513R000723130003-2

KLIMOVICH, B.M., insh.

Improving BSH-4/40 excavators. Stroi. i dor. mashinostr. no.4;5-7
Ap '58. (Excavating machinery) (MIRA 11:4)

APPROVED FOR RELEASE: 09/18/2001

CIA-RDP86-00513R000723130003-2"

"APPROVED FOR RELEASE: 09/18/2001

CIA-RDP86-00513R000723130003-2

KLIMOVICH, B.M. (Angarsk)

Diaphragms for emergency ventilators. Vod. i san. tekhn. no. 6:30
Ja '59.
(Factories--Heating and ventilation) (MIRA 12:8)

APPROVED FOR RELEASE: 09/18/2001

CIA-RDP86-00513R000723130003-2"

Distr: AF1

5
1

1909. Elizarov, D. I. A method of graphical analysis for determining the stresses in the constrained ~~systems~~ ^{systems} of thin-walled bars (in Russian). Nauch. dokl. Akad. Lenningrad. in-ta struk. mech. no. 7, 19-24, 1955. Ref. ZA Nauk. no. 11, 1956. Rev. TKS.

The solution is founded on applying the existing analogy between the differential equation of the torsional angle in grades twisting and the differential equation of bending deflections of a bar bent in tension. The procedure of graphical analysis ultimately reduces to the construction of two rope polygons and subtraction of their ordinates after multiplying them by a specific coefficient.

E. L. Salkin

Courtesy References: Thermal USSR
Translation courtesy Bureau - English Division

KLIMOVICH, F. F.

Lukashev, I. I. and Klimovich, F. F. - "Allergic diagnosis of brucellosis in pigs,"
Sbornik trudov Khar'k. vet in-ta, Vol. XIX, Issue 2, 1948, p. 278-82

SO: U-4934, 29 Oct 53, (Letopis 'Zhurnal 'nykh Statey, No. 16, 1949).

Klimovich, Q.I.

PLATE I BOOK EXPLANATION 507/22:5
PROSPECTIVE OBSERVATION-1940-1941 ONLY INSTITUT METEOROL. IAMI
P.I. KENDAL YOUNG

Postdoctoral Research Associate, University Institute of Meteorology, IITM
P.D. Mandayam
Applications invited for postdoctoral research associate position in the area of
Atmospheric Radiation
30/4/2015

Reform Radio-Indoctrination, with rabbit! abomin' No. 2 (Scientific Standard), Collection of Articles, Nr. 2) Moscow, Standard, 1950. 139 P. 1,000 copies printed.

Mr. J. V. Rasetti, Tech. M.; R. A. Landry, exec.
REPORT: These reports are intended for scientists, researchers,
and engineers engaged in developing standards, measures,
and codes for the various industries.

CONTENTS: The volume contains 225 reports on standards of measurement and control. The reports were prepared by scientists of institutes of the Soviet Standardization and Measurement, by experts of the Central Scientific Committee on Standards, and by members of the Central Council of Standards.

models for a Platinum Resistance Thermometer in the Interval

72
John F. P. Glazier, and H. C. Bratby (Deceased) (series).

19
S. S. J. D. — (Sunderland Branch of V.E.T.R.E.), Developing a Method
of Testing the Apparatus for Calibration and Control of
the Environment

ometers in the 150-3000 Temperature Interval. 74

and the 1901-1902 International Bureau of the International Commission of Temperatures and Imprecise the Accuracy of the Celsius

12/77
S. L. S. and R. J. Sherrill (1977). Design of

APPROVED FOR RELEASE: 09/18/2001

CIA-RDP86-00513R000723130003-2"

L 05797-67 EWT (m)/EMP(j) RM

ACC NR: AP6031064

SOURCE CODE: UR/0143/66/000/008/0022/0027

AUTHOR: Klimovich, G. S. (Engineer); Solov'yev, E. P. (Engineer)

3
B

ORG: Belorussian Politechnic Institute (Belorusskiy politekhnicheskiy institut)

TITLE: Investigation of the failure of some organic insulating materials exposed to surface particle discharges

SOURCE: IVUZ. Energetika, no. 8, 1966, 22-27

TOPIC TAGS: insulating material, filler, varnish, particle discharge, material failure

ABSTRACT: Samples of insulating materials have been tested on an outdoor stand. The analysis shows that the most resistant compound against surface failures is the epoxy compound with a quartz filler. The surface of the samples is readily washed off and the contamination is removed. The best results of testing materials based on procedures of the International Committee of Electrical Engineering were obtained with the varnish F-32L. The classification of materials by ICIEE procedures does not fully reflect the behavior of materials under atmospheric conditions and high

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UDC: 621.315.616.9.015.533

L 05797-67

ACC NR: AP8031084

voltage since contamination is regarded as a factor increasing conductivity over the surface of the sample. Under natural conditions, contamination also affects the pattern of wetting and the behavior of particle discharges a factor which cannot be ignored with an increase in voltage. The paper was presented by the Department of High Voltage Technology on 4 December 1965. Orig. art. has: 3 figures and 3 tables. [Based on authors' abstract]

SUB CODE: 11/ SUBM DATE: 04Dec65/ ORIG REF: 001/ OTH REF: 001/

Card 2/2 Ah,

VASIL'YEVSKIY, A.P.; KLIMOVICH, I.V.

Use of ethylmercuric chloride in floriculture. Biul.Glav.bot.sada
no.27:89-94 '57.
(MLRA 10:5)

1.Glavnyy botanicheskiy sad Akademii nauk SSSR.
(Ethylmercuric chloride)
(Floriculture)

KLIMOVICH, I.V.

Work practices in propagating plants by green cuttings. Biol.
Olav. zet. sada no. 31:111-112 '58. (MIRA 12:5)

1. Glavnnyy botanicheskiy sad AN SSSR.
(Plant cuttings)

KLIMOVICH, P.V.

Several characteristics of the landform regionalization of the
Volyn' Province portion of the Polesye. Geog. sbir. no.7;
6'-74 '63. (MIRA 17:12)

"APPROVED FOR RELEASE: 09/18/2001

CIA-RDP86-00513R000723130003-2

KLIMOVICH, P.V.

Landforms of the Volyn' lake region. Geog.sbor. L'vov, otd. Geog.
ob.-va SSSR no.8:28-35 '64.
(MIRA 18:5)

APPROVED FOR RELEASE: 09/18/2001

CIA-RDP86-00513R000723130003-2"

"APPROVED FOR RELEASE: 09/18/2001

CIA-RDP86-00513R000723130003-2

KLIMOVICH, S. kapitan, komandir podrazdeleniya

Training is primary. Voen. znan. 43 no.916-7 S '65.

(MIRA 18:10)

APPROVED FOR RELEASE: 09/18/2001

CIA-RDP86-00513R000723130003-2"

VAYSBERG, G.Ye., kandidat meditsinskikh nauk (Moscow); KLIMOVICH, S.K.
(Moscow); KOZHUKHOVA, V.K. (Moscow).

Acute sepsis caused by Streptococcus viridans. Klin.med. 31 no.12:
73 D '53. (MLRA 7:1)

1. Iz II terapevticheskogo otdeleniya i laboratorii Tsentral'noy
klinicheskoy bol'nitsy im. Semashko (nauchnyy rukovoditel' -
zasluzhennyy deyatel' nauki professor I.A.Kassirskiy).
(Streptococcus) (Septicemia)

EXCERPTA MEDICA Sec 7 Vol 10/10 Pediatrics Oct 56
KLIMOVICH, S.K.

2161. Klimovitch, S.K. Late sequelae of epidemic hepatitis
(Russian text) KLIM. MED. (Mosk.) 1955, 11/8 (13-38) Tables I
In part of the patients mild residual symptoms remain such as slight bilirubin-
semia, an enlarged liver and disturbed liver function tests. Most often they are
found 2 months to one year after clinical cure and less often one to 5 yr. later.
Liver dystrophy can take various courses from fulminant to subacute forms or
proceed to cirrhosis. Prolonged forms of hepatitis which account for 8-10% of all
cases can end in a complete cure or continue to deteriorate and end in cirrhosis.
Thus of 20 personal patients 12 were cured; in 3 the further course was uncertain
and 3 ended in cirrhosis. Recrudences amount in the personal material in adults
to 5% and in children to 10% of all cases. Second attacks accounted for 12% in the
personal material. The rule is that a grave acute attack, a prolonged or relapsing
course of hepatitis more often leaves residual disturbances or more often ends in
cirrhosis. Not in all cases of cirrhosis could an acute attack of hepatitis be elicited
in their past histories; of 43 personal patients with cirrhosis only in 17 could an
attack of hepatitis be found in their histories. Najman - Zagreb (XX, 6.7)

Therapeutic Clinic, Cent. Clinical Hospital
in Semashko, Min. R.R. Transport.

KLIMOVICH, S.K.

Treatment of iron deficiency anemias with fercoven. Probl.gemat. i perel. krovi 1 no.3:26-28 My-Je '56.
(MIRA 10:1)

1. Iz 2-go terapevcheskogo otdeleniya (nauchnyy rukovoditel' - prof. G.A.Alekseyev) Tsentral'noy klinicheskoy bol'nitsy imeni Semashko Ministerstva putey soobshcheniya i III terapevcheskoy kliniki (zav. prof. I.A.Kassirekiy) Tsentral'nogo instituta usovershenstvovaniya vrachey

(ANEMIA, HYPOCHROMIC, ther.

sucrose iron & gluconic acid cobalt salt prep.)
(CORALT, ther. use

gluconic acid cobalt & sucrose iron salt prep. in
hypochromic anemia)

(CARBOHYDRATES, ther. use
same)

(SUCROSE, ther. use

sucrose iron & gluconic acid cobalt salt prep. in
hypochromic anemia)

(IRON, ther. use
same)

"APPROVED FOR RELEASE: 09/18/2001

CIA-RDP86-00513R000723130003-2

KLIMOVICH, S. K., Cand Med Sci -- (diss) "Materials on the relative evaluation of the effectiveness of treatment of iron-deficiency anemia with various iron preparations." Moscow, 1960. 19 pp; (Ministry of Public Health USSR, Central Inst for the Advanced Training of Physicians); 250 copies; price not given; (KL, 27-60, 160)

APPROVED FOR RELEASE: 09/18/2001

CIA-RDP86-00513R000723130003-2"

PALIN, A.I.; LISITSKIY, R.M.; KHOLSHTEYN, R.Ya.; KLIMOVICH, T.P.,
otv. red.; SEMILETOVA, A.P., otv. red.; GEISHTEYN, G.Ye.,
red.

[Handbook on prepared drugs] Spravochnik po gotovym lekar-
stvennym formam. Sost. A.I.Palin, R.M.Lisitskii, R.YA.
Kholshtein. Otv. red. T.P.Klimovich, A.P.Semiletova. Riga,
Glav. aptechnoe upr. M-va zdravookhranenia Latviiskoi SSR
1962. 390 p.

(Pharmacy--Handbooks, manuals, etc.)

SAKHAROV, I., nauchnyy sotrudnik; Klimovich, V., nauchnyy sotrudnik

Growing weeping trees and shrubs. Zhil.-kom. khol. 8 no.9:
23-25 '58.
(MIRA 11:10)

1. Glavnnyy botanicheskiy sad AN SSSR.
(Trees) (Shrubs)

KLIMOVICH, V.I.; SAMKAROV, I.M.

The pruning of woody plants. Gor.khos.Mosk. 36 no.4:34-35
Ap '62. (MIRA 15:8)

1. Glavnnyy botanicheskiy sad AN SSSR.
(Pruning)

KLIMOVICH, V.M.

Heat balance of the surface of ice during melting. Probl. Arkt. 1
Antarkt. no.12:85-90 '63.
(MIRA 16:7)
(Yenisey Bay--Ice on rivers, lakes, etc.)

KLIMOVICH, V.M.

Penetration of solar radiation into the sea. Probl. Arkt. i Antarkt.
no.13:105-108 '63. (MIRA 16:9)
(Yenisey Bay--Seawater--Optical properties)

PLINOVICH, V. U.

"Mechanical Discharging in Layer Furnaces." Cand Tech Sci, Tomsk
Order of Labor Red Banner Polytechnic Institute S. K. Kirov, Min Culture
USSR, Tomsk, 1953. (KL, № 11, Mar 55)

SO: Sum. №. 670, 29 Sep 55-Survey of Scientific and Technical Dis-
sertations Defended at USSR Higher Educational Institutions (15)

ALL MM, ARDU17263

SOURCE CODE: 44/0110/00/000/002/B134/B135

AUTHOR: Klimovich, V. U.

TITLE: Equation of state for rigid spheres

SOURCE: Ref. zh. Mekhan. Abs. 2B934

REF SOURCE: Nauchn. tr. Omskiy in-t inzh. zh.-d. transp., v. 48, 1964, 17-24

TOPIC TAGS: Van der Waals equation, equation of state, real gas, rarefied gas

TRANSLATION: Results of an experimental test of the equation of state for rigid spheres are given. The equation is in the form of a special case of the Van der Waals equation for a real gas when the forces of interaction between molecules are ignored. For the experiments a mechanical medium is used which consists of steel spheres (ball-bearings) in a metal chamber with tempered walls which made circular oscillatory motions causing movement of the spherical particles analogous to that of molecules in gases with densities approaching limiting values. Note is made of the unjustifiability of taking the overall number of possible pairs formed from N molecules as the actual number of collisions in deriving the Van der Waals equation for rarefied real gases. 9 references.
V. A. Skripkin.

SUB CODE: 20

Card 1/1

Translation from: Referativnyy zhurnal. Mekhanika, 1957, Nr 4, p 79 (USSR) SOV/124-57-4-4414

AUTHOR: Klimovich, V. U.

TITLE: Contribution to the Evaluation of the Heat Lost With the Carry-off in
Grate-firing Furnaces (K otsenke teplovykh poter' s unosom v
sloevykh topkakh)

PERIODICAL: Sb. nauch. tr. Tomskiy elektromekhan. in-t inzh. zh.-d. transp.,
1956, Vol 22, pp 35-54

ABSTRACT: Bibliographic entry

Card 1/1

Translation from: Referativnyy zhurnal. Mekhanika, 1957, Nr 4, p 79 (USSR) SOV/124-57-4-4415

AUTHOR: Klimovich, V. U.

TITLE: Thermal and Engineering Aspects of the Carry-off in Furnaces
(Teplotekhnicheskiye kharakteristiki unosa)

PERIODICAL: Sb. nauch. tr. Tomskiy elektromekhan. in-t inzh. zh.-d. transp.,
1956, Vol 22, pp 55-75

ABSTRACT: Bibliographic entry

Card 1/1

KLIMOVICH, V.U. (Tomsk)

Regeneration of the tangential impulse in case of a nonslip
impact. Izv.AN SSSR, Otd.tekh.nauk.Mekh.i mashinostr. no.2:125-127
Mr-Ap '62. (MIRA 15:5)

(Impact)

KLIMOVICH, V.U.

Basic principles of the performance of a vibration tube mill. Trudy
GMIIT 38:27-46 '62.

Energy losses in the layer of milling bodies of a vibration tube
mill. Ibid. 38:67-68

Characteristics of the work of the grinding layer in a vertical
tube mill. Ibid. 38:65-72
(MIRA 1818)

"APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000723130003-2

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PH FB JMT

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CIA-RDP86-00513R000723130003-2"

OSTAPENKO, Nikolay Nikolaevich; KIRILLOV, Nikolay Pavlovich;
DANILEVSKIY, Vladimir Viktorovich; BYTYZEL'MAN, R.D., nauchnyy
red.; GURIN, A.V., red.; KLIMOVICH, Yu.O., red.; PERSON, M.M.,
tekhn.red.

[General technology of metals] Osnovnaya tekhnologiya metallov.
Izd.3., ispr. i dop. Moskva, Vses.uchebno-pedagog.issd-vo Prof-
tekhizdat, 1960. 367 p.
(Metals) (Metalwork) (MIRA 14:2)

FAYERMAN, Aron Iudovich; FINKEL'SHTEYN, S.A., nauchnyy red.; KLDMOVICH,
Yu.G., red.; DORODNOVA, L.A., tekhn. red.

[Economic aspects and organization of welding practices] Ekonika i organizatsiya svarochnogo proizvodstva. Moskva, Vses. uchebno-pedagog. izd-vo Proftekhizdat, 1961. 94 p.

(MIRA 15:3)

(Welding—Accounting) (Industrial organization)

DODIN, Yakov L'vovich; MARIENBAKH, Lev Mikhaylovich, prof.;
SOKOLOVSKIY, Lev Osipovich; KUDMOVICH, Yu.G., red.;
PEREDERIY, S.P., tekhn. red.

[New developments in foundry techniques] Novoe v tekhnike li-
teinogo proizvodstva. Pod red. L.M.Marienbacha. Moskva, Vses.
uchebno-pedagog. izd-vo Proftekhsdat, 1961. 231 p.

(MIRA 15:2)

(Founding)

"APPROVED FOR RELEASE: 09/18/2001

CIA-RDP86-00513R000723130003-2

KRASIVSKIY, Sergey Petrovich; SHENDEROVICH, I.L., nauchnyy red.;
KLIMOVICH, Yu.G., red.; TOKER, A.M., tekhn. red.

[Principles of automatic and remote control in industry] Os-
novy avtomatizatsii i telemekhanizatsii proizvodstva. Moskva,
Vses. uchebno-pedagog. izd-vo Proftekhdat, 1961. 382 p.

(Automatic control) (Remote control)

(MIRA 15:2)

APPROVED FOR RELEASE: 09/18/2001

CIA-RDP86-00513R000723130003-2"

KHASHKOVETS, Irash [Haskovec, Jiri], inzh.; KOTEK, Zdenek, inzh.;
MEL'TSER, R.Ye. [translator]; SINCHUK, B.I., nauchnyy red.;
KLIMOVICH, Yu.O., red.; TOKER, A.M., tekhn. red.

[Small-scale automation] Malaia avtomatizatsiya. Moskva,
roftekhizdat, 1961. 197 p. Translated from the Czech.
(Automation) (MINA 15:7)

SHAUMYAN, Grigor Arutyunovich; MAKAROV, L.L., nauchnyy red.; KLIMOVICH,
Yu.O., red.; BARANOVA, N.N., tekhn. red.

[Program control of machine tools] Programmnoe upravlenie metalloobrabotchimi stankami. Moskva, Proftekhizdat, 1962. 174 p.
(Machine tools--Numerical control) (MIRA 15:7)

ASINOVSKAYA, Gnesya Abramovna; ZELIKOVSKAYA, Mataliya Mikhaylovna;
KOROVIN, Andrey Ivanovich; KRAVETSKIY, G.A.; NEMKOVSKIY,
I.A.; OFITSEROV, D.M.; TESMENITSKIY, D.I.; FISHKIS, M.M.;
SHAPIRO, I.S.; GLIZMANENKO, D.L., kand. tekhn. nauk, red.;
KLIMOVICH, Yu.G., red.; DORODNOVA, L.A., tekhn. red.

[Flame metalworking processes] Gazoplamennaya obrabotka metal-
lov. [By] G.A. Asinovskaya i dr. Moskva, Proftekhsdat, 1962.
556 p.

(MIRA 16:3)

(Gas welding and cutting) (Flame hardening) (Metal spraying)

KLIMOVICH, YU. L.

PA 240796

USSR/Physics - Relativistic
Mechanics

21 Dec 52

"Relativistic Equation for Quantum Function of
Distribution," Yu. L. Klimovich, Moscow Aviation
Technology Inst

"DAN SSSR" Vol 87, No 6, pp 927-930

Derives relativistic eq. for quantum function of
distribution, which allows one to express dis-
tribution of a system with infinite degrees of
freedom. Presented by M. A. Leontovich 24 Oct 52.

240796

"APPROVED FOR RELEASE: 09/18/2001

CIA-RDP86-00513R000723130003-2

IVANOVA, Ye.V.; KIMOVITSKAYA, O.A.

Seed exchange activities of the Central Botanical Garden of
the Academy of Sciences of the White Russian S.S.R. Bot.;
issl. Bel. otd. VBO no.5:233-236 '63.
(MTRA 17:5)

APPROVED FOR RELEASE: 09/18/2001

CIA-RDP86-00513R000723130003-2"

GUNEVICH, I.S., inzh.; MOROSHKIN, B.N., inzh.; KLIMOVITSAYA, R.M., inzh.

Radio controlled switcher. Vest. TSMII MPS 19 no.8:60-61 '60.
(MIRA 13:12)

1. Kolomenskiy тепловозостроитель'nyy завод им. V.V.Kuybysheva.
(France—Locomotives) (Remote control)

"APPROVED FOR RELEASE: 09/18/2001

CIA-RDP86-00513R000723130003-2

KUMOVITIKAYA, S. I.; TSENTSIPER, Ya. I.

Multiple machining of parts at the Dnuby Pump Plant. Mashinostroitel'noye
no. 1843 Ja 165.
(MIRA 18:3)

APPROVED FOR RELEASE: 09/18/2001

CIA-RDP86-00513R000723130003-2"

"APPROVED FOR RELEASE: 09/18/2001

CIA-RDP86-00513R000723130003-2

KLIMOVITSKAYA, T.V., GEGUZIN, Ya.Ye.

"The Applicability of the Magnetic Method of Determining the Quantiyt of
the Residual Austenite in High-Carbon Steels," Uch. zap. KhGU, V. 48, Tr.
Fiz. otd., No. 4, Kh. St. Univ. publication, 1953

APPROVED FOR RELEASE: 09/18/2001

CIA-RDP86-00513R000723130003-2"

GEGUZIN, YA. YE., AND KLIMOVITSKAYA, T. V.

Applicability of a Magnetic Method for Establishing the Residual Austenite Content in High Carbon Steel

Experimental test of applicability of a magnetic method to the determination of residual austenite in high-carbon steels was carried out. Measurement results were not uniform, pointing to the necessity of preliminary knowledge of carbon content in steel. (RZhFiz, No. 8, 1955) Uch. Zap. Kharkovsk. Univ., 49, 1953. Tr. Fiz. Otd. Fiz.-Matem. Fak., 4, 123-127

SO: Sum. No. 744, 8 Dec 55 - Supplementary Survey of Soviet Scientific Abstracts (17)

~~SECRET~~ Klimovits'kaya Z.M.

Carbohydrate dynamics and protein accumulation as affected by
nutrition system of plants in grass-beet crop rotation. Dep.
AN URSR no.3:59-67 '49.
(NIRA 9:9)

1. Institut fiziology rosin i agrokhimii AN URSR. Predstaviv
diyenniy chlen AN URSR P.A.Vlas'yuk.
(Botany--Physiology) (Grain) (Sugar beets) (Grasses)

VLASTUK, P.A.; KLIMOVITSKAYA, Z.M.

Effect of various types of potassium fertilizers on the
synthesis of rubber and chemical composition of kok-saghyz.
Nauk.szap.Kiev.un. 8 no.5:35-44 '49.
(MLRA 9:10)

(Plants, Effect of potassium on) (Kok-saghyz)

C A D

Dynamics of carbohydrates, nitrogenous matter and activity of enzymes in connection with dietary condition of plants of modern Soviet rotation crops. P. A. Vlas'yuk and V. M. Klimov-Dobrov. Izdat. Akad. Nauk S.S.R., Sov. Akad. Nauk SSSR, Moscow, 1959, pp. 43-57. -- Studies of rotation crops of wheat, Amaranthus, and beet under field-variety conditions with mineral, org., or mixed fertilizers, showed the best effect of the latter group (highest enzymic activity and largest crops). Max. monosaccharides are found in winter wheat leaves in early spring (tubulation stage), with a drop during flowering; protein content declines at the end of vegetation. In summer wheat the max. monosaccharides are found during sprouting, especially with mineral diet; during tubulation the monosaccharides decline in favor of starch; amylose could not be found; pentose is high until flowering (in winter wheat the max. activity is in January). Protein content rises in the leaves largely at tubulation and flowering stages. In the leaves the monosaccharides are initially low in the leaves and their amt. rises with age along with appearance of starch. Root amylose is low as in catalase; pentose activity is increased by mineral or org. diet. (O. M. K.)

CA

13-

Accumulation of chlorophyll in plants under influences of various modes of fertilization in grass-field rotations. P. A. Vlasov and Z. M. Klimovitshina. (Agric. Sci. Ukrine S.S.R., Kiev). DOKLADY AKADEM. NAUK S.S.R. 77, 909-12 (1961).—In field-scale experiments it was shown that in perennial grass-mint, (hay) cultivation, the highest chlorophyll level is reached when fertilization is done with a mixed mineral-org. man. (20 tons manure, 30 kg. N and P, and 60 kg. K, per hectare). For winter wheat the same fertilizer is most effective although during the period of development just prior to flowering the chlorophyll level shows a decided decline. The highest sugar-beet yield results also from the org.-mineral fertilizer, as does the highest chlorophyll content, which is attained in the middle of the vegetative period. Manure alone gave fairly high accumulation of chlorophyll and acts more rapidly than phosphate-K fertilizer. Phosphate in the presence of K from manure and with decreased utilization of N from manure shows a more pronounced positive effect on sugar-beet yield than does the org.-mineral combination in which K predominates over P. The best yield of roots of koh-nagibra in weakly podzolic soils came also from org.-mineral fertilizer combination, but the yield of rubber was best when the above dosage was halved.

G. M. Konidapu

1961

✓
1951

13. progress - continuing
110/Indstry

Activity of polyphenoloxidase in plants with different systems of fertilization. P. A. Vlasov and Z. M. Klimova-Lazareva. *Dobrolyub. Vestn. N.S.S.R.* 77, 1107-8 (1951). Four types of fertilizer application were used: control, in which 10 kg. N and K and 10 kg. P were introduced per ha only into the rows; a mineral diet, in which the above was supplemented by general fertilization with 30 kg. N and P and 60 kg. K; org. type, in which 20 tons/ha of manure was added besides the 1st treatment; and org.-mineral-type, in which 1st and 2nd treatments were combined. Blood tests were done with beet sugar and perennial grasses. The org. mineral diet gave lowest polyphenoloxidase activity, but highest yield of plant product, in beet cultures. Other plants showed no change with diet. (Z. M. K.)

VLASTYUK, P.A., diysamy chlen; KLEMOTITS'KA, Z.N.

Agricultural and physiological characteristics of grass mixture components
under plant nutrition systems in grassland crop rotation. Dop. AM UkrSSR no. 3:
213-218 '52.
(MLRA 6:9)

1. Akademiya nauk Ukrayins'koyi SSR (for Vlastyuk). 2. Laboratoriya fisiolohiyi
shvylensya roslin Instytutu fisiolohiyi roslin i zhreshchiniyi.
(Grasses) (Rotation of crops)

ГАДИК, Р. А., КЛИН ФИЗИАТ, З. Н.

Grasses

Influence of the system of nourishment on physiological particularities of the varieties
in a mixed grass crop. Dokl. Ak. sel'khoz. No.5, 1952

Institut Fiziologii Rasteniy i agrokhimii Akademii Nauk USSR recd. 12 Feb. 1952

SO: Monthly List of Russian Accessions, Library of Congress, August, 1952 ~~copy~~, Unclassified.

1. VLASTUK, P. A. and ELDOMITSKAYA, Z. M.
2. USSR (600)
4. Potash
7. Effect of forms of potassium fertilizers on the formation of carbohydrates and the content of various forms of phosphorus in cotton plant under irrigation. Dokl. AN SSSR 87 No. 1, 1952.
9. Monthly List of Russian Accessions, Library of Congress, February 1953. Unclassified.

Uttarayan, 2. II.

The influence of various forms of potassium fertilizers on the carbohydrate metabolism in plants under the conditions of crop rotation. P. A. Vidyut and Z. M. Khemchikaya. *Dopovid Akad. Nauk Ukr. R.S.R. 1951, 37-38 (Kharkov summary, 58).*—The addition of KCl to N + P fertilizer increased the winter-wheat crop by 13%, K_2SO_4 by 7.8%, and the addition of both (and of each) by 13.1%. The chlorophyll also increased in all the stages on the addition of K salts. In sugar beets the crop was increased by 10% with KCl, by 15.8% with K_2SO_4 , and by 15% with both salts added. The leaves, on May 20, June 20, and July 20, had monosaccharides, resp., with N + P alone (%, on dry basis) 1.41; 1.43; 0.96; 0.94; KCl, 1.72; 1.16; 2.75; traces; K_2SO_4 , 1.25; traces; 2.15; 0.77; 4.65; 1.75; both added, 1.41; 1.33; 1.08; 0.37; 0.76; 0.63. The roots, on May 20 and June 20, resp., with N + P alone, 1.22; 4.81; 0.65; 0.50; KCl, 1.35; 1.05; 0.72; 0.34; K_2SO_4 , 1.14; 3.16; 0.35; 0.26; both added, 1.34; 3.05; 0.40; 0.32. There was a greater amt. of sucrose in the roots in the earlier stages than in the later, indicating its conversion to sucrose. In *Morinda citrifolia*, during flowering and harvest, resp., the amt. of sucrose and sucrose, resp., in the leaves, with N + P alone, 0.6; 0.34; 0.40; traces; KCl, 1.78; 0.09; 1.26; —; K_2SO_4 , 0.50; traces; 1.14; 0.41; both added 1.25; 1.27; 1.20; 0.36; in the stems, N + P, 0.40; 1.50; 0.42; 1.75; KCl, 3.02; 1.70; 0.62; 1.05; K_2SO_4 , 0.50; 1.50; 0.40; 1.44; both added, 2.30; 1.20; 0.60; 1.44. Total crop for the 4 fertilizers, resp., 18.2; 18.1; 10.5; 10.5. *B. Ovchinnikov*

(1)

Inst. PLANT Physiology & Agrochemistry, Acad. Sci. UkrSSR

VLASTUK, P.A.; KOSMATIY, E.S.; KLINOVITS'KA, Z.H.

Application of radioactive tracers in improving the system of
plant nutrition conditions. Visnyk AN Ukr 25 no.11:43-53
N '54. (MIRA 8:2)

(Plants--Nutrition)(Radioactive tracers)

Klimovitskaya, Z. M.

The significance of different forms of phosphate in plant nutrition. P. A. Vlasick, E. S. Krasnaya, and Z. M. Klimovitskaya. (Ind. Plant and Agriculture, Acad. Sci. Ukr. SSR, Kiev, 1960). Proc. Russ. Acad. Nauk S.S.R. 2, 384-7 (1960).—Expts. with N-P-K plant diet contg. P³² in superphosphate, Ca pyrophosphate, or Ca orthophosphate were performed on sugar-beet, wheat, and clover. Sugar-beet and clover utilize the P content of superphosphate most intensely. Pyrophosphate is utilized less well, and orthophosphate the least. P, regardless of its source, is localized more in the conventional proteins than in protein reserves (storage proteins). In sugar-beet leaf in the 16-day plants (initial vegetative period) there are formed, in addition to inorganic P₂O₇, pyrophosphate, phosphate, and fraction-1,0-diphosphate. At this age the roots show a considerable excess of the inorg. P only. The best intake of P from superphosphate into sugar-beet occurs when the fertilizer is introduced into the rows at planting. If the superphosphate is introduced some 5 cm. below the seeds the intake of P is considerably reduced. The more-luminous young tissues of plants are richer in P than are the older tissues.

G. M. Koschek

(2)

266. Metabolism in clover plants studied with radioactive sulphur

P. A. Vlasick, E. S. Krasnaya, and N. I. Blinova
By Akad. 1964 Akad. No 14681. It is shown that by introducing Na₂³⁵SO₄ and gypsum into the soil that ³⁵S rapidly accumulates in clover plants and participates in the synthesis of metabolizing proteins. ³⁵S mainly appears in the roots, less in stems and leaves. By column chromatography it is demonstrated that ³⁵S is incorporated into cysteine and methionine by the third day and into protein by the sixth day, after introducing the ³⁵SO₄ into the soil. It is assumed that conversion of SO₄ to plant tissues proceeds according to the scheme: SO₄ → cysteine → methionine → protein (Russsian).

APPROVED FOR RELEASE: 09/18/2001

CIA-RDP86-00513R000723130003

3

USSR

The phosphate and potassium interaction in plants
V. V. Vasyuk and Z. M. Klesovskaya. *Dal'nevostok. Akad. Nauk SSSR, Ser. Biologicheskaya*, No. 1, 8-9 (1953). — A combination of KCl and K_2SO_4 was most effective on wheat. Cotton under irrigation and sugar beets without irrigation have responded best to K_{2SO₄} at a dose from 1/2 and 1/4 of K_2SO_4 and KCl. Irrigation of cotton and sugar beets with advanced stages of age shows a decrease of phosphatases, protein compounds, P_{2O₅}, sucrose, phosphates, and phytin. The nucleoprotein remains fairly const. throughout the growing cycle. K_{2SO₄} has improved the quality of wheat by increasing the protein content (17.5 against 13.0% in the control). All fractions of P_{2O₅} except were highest in the early stages of growth when KCl, KCl and K_2SO_4 , and Mg-K sulfates were used. KCl and K_2SO_4 were conducive to formation of sucrose phosphates. Combinations of KCl and K_2SO_4 , and K-Mg sulfates were conducive to rapid utilization of the sucrose phosphates. The P_{2O₅} metabolism of cotton is characterized by a sharp decrease at the end of the growth period of mineral forms of P_{2O₅}, phosphatases and especially nucleophosphates. An accumulation of nucleophosphates takes place during flowering when K_2SO_4 is added.

(1936). Drilling K-Mg fertilizers for wheat showed that K-Mg salts alone and in combination with KCl proved to be effective. For sugar beets K_2SO_4 was more effective. A form of K had a great influence on the rate of synthesis of glutathione during the period of typhus infection in wheat. Leaves of wheat had less glutathione when K_2SO_4 was used. Sugar beets during the first and middle stages of growth had less glutathione and more at the end stages of growth when K_2SO_4 was used. KCl decreased respiration capacity of the leaves of wheat in the early stages of growth and increased it in the later stages. In sugar beets, oxidation was lower in early stages when K_2SO_4 or kalinitite were used, whereas K-Mg salts increased it. Peroxidase activity increased in leaves of wheat when K was supplied as KCl and K_2SO_4 . KCl and kalinitite decreased the activity of polyphenolase in sugar beets. KCl decreased respiration.

J. S. Joffe

APPROVED FOR RELEASE: 100 YEARS UNDER E.O. 14176 RDP86-00513R000723130003

The influence of root and foliar feeding of radiophosphorus and nitrogen on the growth and sugar-content of *Chenopodium album*. D. G. Vassilieff, J. S. Judd, and C. H. Tamm. *Botany Review* 20, No. 6, 15-77 (1952). Supplying to 16 kg. soil 5-10 microcuries of radioactive Ca has increased the wt. of the root and leaves by 21% and the sugar content by 0.3-0.5%. Radiophosphorus (in the form of Na_3HPO_4) applied to the foliage has increased the wt. of roots by 41%. All through the growing period there was more Ca in the leaves than in the roots. J. S. Judd.

Klimovitskaya, Z. M.

Med ✓ Conditions for the entry of carbon into the plant from carbonates in the soil. P. A. Vlasyuk, B. S. Kozmatyl, and

Z. M. Klimovitskaya. *Doklady Vsesoyuz. Akad. Sel'skokhoz. Nauk*, v. 7, Leningrad, No. 4, 21-31 (1938). - Pot exps. with sugar beets, clover, spring wheat, cabbage, and tomato transplants (seedlings), with meadow poached wills, show that C from carbonates in the soil are utilized by plants. In metabolizing it through the roots alongside with C from CO_2 . Radioactive C in Na_2CO_3 (50 microcuries per mg. of 10 kg. of soil) mixed in the fertilizer was taken up by the plants if the soil had a pH of 8.4. J. A. Joffe.

Lab. of Physiological Work of Nuclear Radiation

on crops. Inst. of the Physiology of Crops
and Agrochemicals, 95 WLS S.E.

APPROVED FOR RELEASE 10/18/2001

Tracer studies of radioactive Ca^{45} ($10 \mu\text{C}/\text{per plant}$) effect on sugar beet yield and the effects of small doses of pH , Ca^{45} , and pH in the feed supply of sugar beets and clover are tabulated and discussed. The studies established that in the early stages of growth of sugar beets the ionizing radiation increased the oxidation and lowered the reduction processes. Considerable increase of reduction processes were observed towards the end of the reproductive period.

Large ionizing radiation doses to silver plates increased oxidation and suppressed the reduction process. In silver plates small doses of radiation (10^4 to 10^5 rads) increased the oxidation, the Hahn low-reduction proportion, and the number of reducing forms of absorbed gold.

Large ionizing radiation doses to clover plants hastened senescence and suppressed the reproductive process. In clover plants small doses of radioactive Sr^{90} have increased the number and the size of flowers and the number of seeds per flower, and the content of reducing forms of carbohydrates.

~~VIA-RDP86-00513R000723130003~~

*ACAD. SCI Ukr SSR

USSR/Plant Physiology - Mineral Nutrition.

I.

Abs Jour : Ref Zhur - Biol., No 23, 1953, 104360

Author : Vlasyuk, P.A., Koamatyy, Ye.S., and Klimovitskaya, N.M.

Inst : Institute of Plant Physiology and Agrochemistry, AS
Ukrainian SSR.

Title : The Effect of Nitrate-Ammoniacal, Nitrogenous and Minera-
nous Nutrition on Sulfur Metabolism in the Sugar Beet.

Orig Pub : Fiziol. Rasteniy, 4, No 5, 432-439, 1957.

Abstract : Under conditions of a soil culture and a NPK background,
with respect to the sugar beet and wheat, it was es-
tablished through introducing $\text{Na}_2\text{S}^{35}\text{O}_4$ (50 curies per 16 kg
of soil) that, in contrast with P, more S enters into re-
serve proteins than into the constitutional proteins.
Injection into the roots of the sugar beet of aqueous so-
lutions of methionine or vitamin B₁ containing S³⁵ caused

Card 1/3

- 8 -

USSR / Plant Physiology. Mineral Nutrition.

I-3

Abs Jour : Ref Zhur - Biol., No 10, 1958, No 43729

Author : Vlas'yuk, P. A.; Kosmnyyy, Ye. S.; Klinovitskaya, Z. M.

Inst : Kiev Institute of Plant Physiology, AS USSR Ukr SSR

Title : The Effect of Nitrate, Phosphorus, Potassium and Manganese
Nutrients on Phosphorus Metabolism in the Sugar Beet.

Orig Pub : Izv. AN SSSR, Ser. Biol., 1957, No. 5, 611-616

Abstract : A vegetative experiment (repeated five times) with the use
of P_2O_5 made at the Kiev Institute of Plant Physiology,
showed that in the sugar beet culture Mn both on a nitrate
ground and a ground of ammonium nitrogen nutrient increased
the speed of the metabolism of P with RNA and DNA, as well
as the P fraction of "nucleic acids plus phosphoproteins".
The P metabolism speed of phospholipids and mineral phospho-
proteins was reduced under the influence of Mn on an ammonium
nutrient ground and increased on a nitrate one. The P
metabolism rate at a low phosphorus nutrient level reached

Card 1/2

VLASTUK, P.A.; KLIMOVITSKAYA, Z.M.; VIZIR', K.L.

Manganese distribution in some cellular structures of plants.
Izv.AN SSSR.Ser.biol. no.3:368-378 My-Je '59. (MIRA 12:9)

1. The Ukrainian Research Institute of Plant Physiology, Kiev.
(MANGANESE) (PLANTS--ASSIMILATION)

VLASTUK, P.A.; KLIMOVITSKAYA, Z.M.

Manganese in different cellular structures of plants. Fiziol. rast.
6 no.5:560-567 S-O '59. (MIRA 13:2)

1.Ukrainian Scientific Research Institute of Plant Physiology,
Kiyev.
(Plants, Effect of manganese on)

VLASTUK, P.A.; KLIMOVITSKAYA, Z.M.; VIZIR, K.L.

Tale of the root system in the translocation and transformation of manganese in plants. Izv. AN SSSR. Ser. biol. no.6:865-873 N-D '60.

(MIRA 13:11)

1. Academy of Agricultural Sciences of the Ukrainian S.S.R., Kiev.
(ROOTS (BOTANY))
(PLANTS, MOTION OF FLUIDS IN)
(MANGANESE)

VLASYUK, P.A.; KLIMOVITSKAYA, Z.M.

Physiological role of manganese in plant life. Izv. AN SSSR. Ser.
biol. 26 no.5:740-759 8-0 '61. (MIRA 14:9)

1. Academy of Agricultural Sciences of the Ukrainian S.S.R., Kiev.
(PLANTS, EFFECT OF MANGANESE ON)

VLASYUK, P.A.; KLIMOVITSKAYA, Z.M.; LENDENSKAYA, L.D.; RUDAKOVA, E.V.

Differential centrifugation of plant cell structures with regard to their microelement content. Izv. AN SSSR Ser. biol.
28 no.5:653-667 S-01'63 (MIRA 16:11)

1. Institute of Plant Physiology, Academy of Sciences of the
Ukrainian S.S.R., Kiev.

PEYVE, Ya.V., akademik, otv. red.; VLASYUK, P.A., akademik, red.; SIROCHENKO, I.A., prof., red.; VOYNAR, A.I., prof., red.; MINORIK, A.V., kand. biol. nauk, red.; OSTROVSKAYA, L.K., doktor biol. nauk, red.; ZADERIY, I.I., doktor sel'khoz. nauk, red.; KURINNAYA, M.F., dots., red.; KLIMOVITSKAYA, Z.M., kand. biol. nauk, red.; MITSYK, V.Ye., kand. vet. nauk, red.; KAPITANCHUK, V.A., red.; RAD'KO, N.K., red.

[Trace elements in agriculture and medicine; materials]
Mikroelementy v sel'skom khoziaistve i meditsine; materialy. Kiev, Gossel'khozizdat USSR, 1963. 689 p.
(MIRA 18:1)

1. Vsesoyuznoye soveshchaniye po voprosam primeneniya mikroelementov v sel'skom khozyaystve i meditsine, 4th, Kiev, 1962.
2. Ukrainskiy nauchno-issledovatel'skiy institut fiziologii rasteniy AN Ukr.SSR (for Ostrovskaya, Vlasyuk).
3. Institut biologii AN Latviyskoy SSR (for Peyve).
4. Kiyevskiy meditsinskiy institut (for Kurinnaya).
5. Donetskiy meditsinskiy institut im. A.M.Gor'kova (for Voynar).
6. Ukrainskiy nauchno-issledovatel'skiy institut fiziologii i biokhimii sel'sko-khozyaystvennykh zhivotnykh (for Mitsyk).
7. Belotserkovskiy sel'skokhozyaystvennyy institut (for Zaderiy).

VLASYUK, P.A., akademik, otv. red.; KOLOMIYTSEVA, M.G., prof.,
red.; KRUPSKIY, N.K., prof., red.; KLIMOVITSKAYA, Z.M.,
doktor biol. nauk, red.; KURINNAYA, F.F., kand. med.
nauk, red.; MITSYK, V.Ye., kand. vet. nauk, red.;
KAPITANCHUK, V.A., red.; RUDAKOVA, E.V., kand. biol. nauk,
red.; SKUTSKAYA, N.P., red.

[Use of trace elements in agriculture; Republic inter-de-
partmental collection of papers] Primenenie mikroelementov
v sel'skom khoziaistve; Respublikanskii mezhvedomstvennyi
sbornik. Kiev, Naukova dumka, 1965. 218 p.

(MIRA 18:7)

1. Akademiya nauk UkrSSR, Kiev. 2. Institut fiziologii rasteniy
UkrSSR (for Vlasuk, Rudakova).

"APPROVED FOR RELEASE: 09/18/2001

CIA-RDP86-00513R000723130003-2

MANRIK, A.V. [Manoryk, A.V.]; KLIMOVITSAYA, Z.M. [Klimovyt's'ka, Z.M.]

Petro Antypovich Vlasiuk; 1905; on his 60th birthday and the
40th anniversary of his scientific, pedagogical and civic activi-
ties. Ukr. bot. zhur. 22 no.3:107-111 '65. (MIRA 18:7)

APPROVED FOR RELEASE: 09/18/2001

CIA-RDP86-00513R000723130003-2"

SOV/127-59-3-12/22

14(5)

AUTHORS: Kryuchkov, V.V. and Klimovitskiy, A.M., Engineers

TITLE: Organizing the Central Control in the Kapital'naya
Nr 2 Pit of the Degtyarka Mine. (Dispatcherizatsiya
shakhty Kapital'naya Nr 2 Degt.arskogo rudnika.)

PERIODICAL: Gornyy zhurnal, 1959, Nr 3, pp 45-49 (USSR)

ABSTRACT: An experimental installation for central control
was put into operation in the Kapital'naya Nr 2 pit
of the Degtyarka Copper Mine, in 1958. All control
and communication devices are concentrated on the
dispatcher's panels. On the left panel are the
registers of trolleys unloaded in the bunkers, and
for the rocks evacuated on each pit level. A high-
frequency broadcasting and enquiry station is also
on the left panel. Cage and skip hoistings, as well
as the level of ore in bunkers, are registered on
the central panel. A video control device will also
be installed on this panel. Devices for control of

Card 1/2

SOV/127-59-3-12/22

Organizing the Central Control in the Kapital'naya Nr 2 Pit of the
Degtyarka Mine.

the insulation of electric lines, of pressure and expenditure of air and water are installed on the right panel. The APU abonents' installation for liaison with the pit management, and with the central telephone station, is also on the right panel. The functioning of these operations is described in detail. There are 2 diagrams and 3 photos and 3 Soviet references.

ASSOCIATION: Tsvetmetavtomatika, Moscow.

Card 2/2

ANFILOV, A.A., inzh.; BAKALEYNIK, Ya.M., inzh.; BIRGER, G.I.,
inzh.; BRUK, B.S., inzh.; Burov, A.I., inzh.; GINZBURG, V.L.,
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(for Zolotukha). 2. Glavnyy inzh. shakhty im. Lutugina tresta
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(Donets Basin—Coal mines and mining—Labor productivity)

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tsvetnoi metallurgii, 1960. 369 p. (MIRA 13:?)
(Metallurgy)

KLIMOVITSKIY, M.D.; CHUBAR', V.M.

Automatic regulation of thermal conditions in heat treating
furnaces operated with liquid fuel. Priborostroenie no.1:
22-23 Ja '60. (MIRA 13:5)
(Furnaces, Heat treating)

KLIMOVITSKIY, M.D.; PRATUSEVICH, A.Ye.

Automatic control of heating furnaces in continuous thin-sheet mills. Metallurg 5 no.2:29-31 F '60.
(MIRA 13:5)

1. Tsentral'noye proyektno-konstruktorskoye byuro Glavmontazha avtomatiki (for Klimovitskiy). 2. Magnitogorskiy metallurgicheskiy kombinat (for Pratusevich).
(Rolling mills) (Furnaces heating)
(Automatic control)

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AUTHORS:

Gozenbuk, L.G., Kopelovich, A.P., Klimovitskiy, M.D.,
and Mirov, B.N., Engineers

TITLE:

Automatic Control of the Heating Furnaces in Rolling
Mills

PERIODICAL: Mekhanizatsiya i avtomatizatsiya proizvodstva, 1960,
Nr 4, pp 23-25 (USSR)

ABSTRACT:

The Tsentral'noye proyektno-konstruktorskoye byuro
(Central Project-Design Bureau) of Glavproyektmon-
tazhavtomatika has developed a system (Fig 3) for
controlling the heating conditions of ingots in con-
tinuous furnaces. The work was performed on Nr 3
continuous furnace in mill 1450 at Magnitogorskiy
metallurgicheskiy kombinat (Magnitogorsk Metallurgical
Combine). This furnace heats slabs prior to rolling
in the continuous sheet rolling mill. The area of

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Automatic Control of the Heating Furnaces in Rolling Mills

the furnace floor is 135^2 and the length of the furnace 24.85 m. The welding and soaking zones are respectively heated by 9500 kilocalories per kilogram gas-mazout and 2,230 kilo calories per normal cubic meter gas. Air heating is performed in a ceramic recuperator. The Central Project-Design Bureau studied the following problems: determining the "pulse" which continuously characterizes the productivity of the furnace; determining the "pulse" in the mill, which characterizes the heat quality of metal in the furnace; determining the possibility of improving control of the combustion processes in the furnace zones; the rational choice of means of control according to the dynamic properties of the object. The two "pulses" selected were a) the relationship between temperature in the initial stage of the continuous zone and the productivity of the furnace (Fig 1) and b) the relationship between rolling temperature after the first

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finishing group stand and the heating charge of the upper and lower welding zones (Fig 2). The resultant control system is described in detail. There are 2 graphs and 1 diagram.

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S/096/61/000/002/014/014
E194/E155

AUTHORS: Kopelovich, A.P., Engineer, and
Klimovitskiy, M.D., Engineer

TITLE: The Dynamic Characteristics of Thermometric Elements

PERIODICAL: Teploenergetika, 1961, No.2, pp. 92-94

TEXT: The dynamic characteristics of a number of industrial temperature-sensitive elements were determined. The dynamic characteristics depend both on the method of measurement and on the design of the element (particularly the construction of the protective sheath) and also on the heat-exchange conditions to which the element is subjected. Tests were made with chromel-alumel and platinum-platinoid thermocouples, copper resistance thermometers, a gas manometer and a radiation pyrometer. The radiation pyrometer was tested by training it on nickel at a temperature of 1050 °C and removing a screen to start the test. The resistance manometers and manometric thermometer were tested by heating in boiling water and cooling in cold water or air. Tests were also made under industrial conditions. Other tests were made in metallurgical furnaces. The time constants and

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The Dynamic Characteristics of Thermometric Elements

delay constants were determined from the tangents to the experimental curves, and numerical data for 18 variants of thermocouple design are tabulated. The values of time constant and delay obtained for thermocouples in laboratory furnace tests and with low gas-speeds in an industrial furnace are close to one another. Hence the sensitive element may be considered as a linear link and test results can be extended to other types of disturbance besides those given here.

There are 1 figure and 1 table.

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